

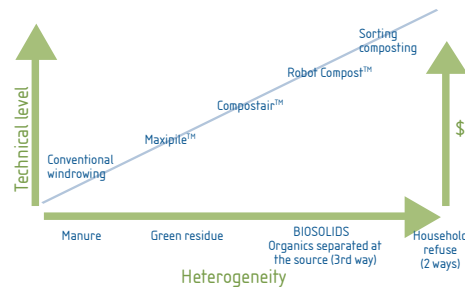
- A unique and complete set of technologies to treat the entire range of mixed and organic wastes
- Composting technologies adapted to 2 or 3-stream collection
- Facilities comprise state-of-the-art and efficient odour control systems
- Quality compost meeting North-American and European standards
- No leachates generated as the facilities are in-vessel
- Turnkey or BOO projects
- Facilities in Canada, USA and Europe.

FIELD OF APPLICATION

Mixed Solid Waste (MSW) from 2 stream collection, Source Separated Organics (SSO) from 3-stream collection, agricultural, institutional, industrial, and agribusiness organic waste.

TECHNOLOGY DESCRIPTION

Conporec offers a complete range of composting technologies to process Mixed Solid Waste (MSW) as well as various types of organic wastes, based on their degree of heterogeneity and the technical level of treatment required.



Sorting-composting technology



The bioreactor is the key element of Conporec's sorting-composting technology. Residual waste reside in the bioreactor to ensure homogenization through a semi-continuous accelerated composting process of the organic matter.

Conporec's process does not include any crushing, shredding, or grinding of waste to facilitate the recovery of recyclables and improve the final quality of the compost.

With the bioreactor, the organic matters are then separated more efficiently from the non-organic matters through a primary refining phase. Organic matters are sent to a composting area in a closed building and it is windrowed. A forced aeration system located under the windrows encourages rapid composting and after only a few weeks, the compost goes through a secondary refining to meet marketing requirements.

The non-organic fraction is sent to a sorting area where recyclables (metals and construction/demolition materials) are recovered; residuals are landfilled.

The process incorporates efficient odour control systems and equipment. The entire process takes place in-vessel under negative pressure and all air is sent to a biofilter.

RobotCompost™ technology

The RobotCompost™ treatment system is an evolved composting technology combining automated agitation and forced aeration through a series of horizontal beds. Each horizontal bed has its own air diffusion system to maintain optimum aerobic conditions of the organic mix to be processed.

Above the walls, an exclusive mechanical agitator on rails is used to homogenize the material while moving it from the entrance to the outlet.



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At the outlet of the horizontal beds a Conporec Inc. exclusively designed module will automatically send the raw compost toward the maturation zone.

Above the horizontal beds, an isolated captation chamber collects and sends the process gases to the biofiltration processing unit.

The entire operation is controlled by a PLC.

Compostair™ technology



The CompostAir™ treatment system is one of the technologies based on forced aeration of static waste piles in a confined environment.

A base CompostAir™ module includes two side-by-side reinforced concrete cells closed on three sides. These cells are equipped with a perforated floor used to aerate the waste piles evenly and to accelerate the thermophilic composting phase. A conduit system sends air to each cell and removes liquids that may percolate from the organic matter.

Each cell has its own blower. These blowers are managed by a PLC which ensures optimum blowing time with relation to climatic conditions.

The CompostAir™ system is currently used in several Quebec and New-Brunswick municipalities.

Maxipile™ technology

The MaxiPile™ technology uses forced aeration to accelerate and control the transformation of organic waste, based on the static pile composting method. This method can process volumes larger than 1000 m³ using forced aeration as the main source of control during the composting process.

A suitable choice of mixed waste components ensures conditions that are adequate to start the process. This mix is then placed on the air distribution system, which is set up according to the composition of the mix and an optimum composting height. Fans actuated through an automatic control system, equipped with a series of temperature sensors inside the pile, ventilate the system.

